

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	0	"703".ccls. and UAV	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:17
L6	0	"703".ccls. and unmanned near3 air\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:18
L7	0	UAV and active adj packet same command	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:19
L8	800	UAV	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:19
L9	0	L8 and active adj packet same command	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:19
L10	4	L8 and packet same command	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:21
L11	0	L8 and active adj packet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:22
L12	0	L8 and active adj network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/10 16:22
L13	0	L8 and active adj network\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:22

EAST Search History

L14	156	UAV same command	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:22
L15	27	L14 and packet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:33
L16	0	L15 and @ad<"20011127"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:23
L17	0	"701".ccls. and UAV and packet same (command or control)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:33
L18	3	"701".clas. and UAV and packet same (command or control)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:34
L19	0	"434".clas. and UAV and packet same (command or control)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/10 16:34


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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **UAV Communications: Integrating a Real-World Scenario with Computer**
Augeri, C.; Neebel, D.; Baird, L.; de Freitas, A.;
[Frontiers in Education, 2005. FIE '05. Proceedings 35th Annual Conference](#)
19-22 Oct. 2005 Page(s):F2H-15 - F2H-20
Digital Object Identifier 10.1109/FIE.2005.1612068
[AbstractPlus](#) | Full Text: [PDF\(280 KB\)](#) IEEE CNF
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- ☐ 2. **UAV aided intelligent routing for ad-hoc wireless network in single-area t**
Gu, D.L.; Pei, G.; Ly, H.; Gerla, M.; Zhang, B.; Hong, X.;
[Wireless Communications and Networking Conference, 2000. WCNC. 2000 IE](#)
Volume 3, 23-28 Sept. 2000 Page(s):1220 - 1225 vol.3
Digital Object Identifier 10.1109/WCNC.2000.904805
[AbstractPlus](#) | Full Text: [PDF\(512 KB\)](#) IEEE CNF
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- ☐ 3. **Black/white packet service: encrypted IP video over GBS**
Bennett, B.; Skowronski, M.;
[Military Communications Conference, 2003. MILCOM 2003. IEEE](#)
Volume 2, 13-16 Oct. 2003 Page(s):767 - 772 Vol.2
Digital Object Identifier 10.1109/MILCOM.2003.1290209
[AbstractPlus](#) | Full Text: [PDF\(1595 KB\)](#) IEEE CNF
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- ☐ 4. **C-ICAMA, a centralized intelligent channel assigned multiple access for n**
hoc wireless networks with UAVs
Gu, D.L.; Ly, H.; Xiaoyan Hong; Gerla, M.; Guangyu Pei; Yeng-Zhong Lee;
[Wireless Communications and Networking Conference, 2000. WCNC. 2000 IE](#)
Volume 2, 23-28 Sept. 2000 Page(s):879 - 884 vol.2
Digital Object Identifier 10.1109/WCNC.2000.903973
[AbstractPlus](#) | Full Text: [PDF\(572 KB\)](#) IEEE CNF
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1 [Analysis methodology: Simulation of large networks: modeling and simulation of telecommunication networks for control and management](#)

John S. Baras

 December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

 Full text available: pdf(812.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we describe methodologies for telecommunication networks modeling and simulation that are targeted to be useful as tools in on-line and off-line decision making of the type encountered in network control, management and planning problems. We describe the development, validation and use of self-similar and multi-fractal models, queuing control and performance evaluation, assessing the incremental utility of various models, hierarchical models based on aggregation, analytic approx ...

2 [Industrial track: aerospace applications: Experiences with the design and implementation of an agent-based autonomous UAV controller](#)

Samin Karim, Clint Heinze

 July 2005 **Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05**

Publisher: ACM Press

 Full text available: pdf(389.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper reports experiences and outcomes of designing and developing an agent-based, autonomous mission control system for an unmanned aerial vehicle (UAV). Most UAVs are not truly autonomous or even unmanned but are more correctly termed 'uninhabited' or 'remotely piloted'. This paper explores two quite different approaches for adding autonomous control to an existing UAV. Both designs were implemented using an agent-based language. The first takes a fairly standard approach, adding a layer ...

Keywords: BDI agency, OODA, UAV, cognitive robotics, cognitively plausible models, real-time agent-based control

3 [Papers from MC²R open call: The holes problem in wireless sensor networks: a survey](#)

Nadeem Ahmed, Salil S. Kanhere, Sanjay Jha

 April 2005 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 9

Issue 2

Publisher: ACM PressFull text available:  pdf(433.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several anomalies can occur in wireless sensor networks that impair their desired functionalities i.e., sensing and communication. Different kinds of holes can form in such networks creating geographically correlated problem areas such as coverage holes, routing holes, jamming holes, sink/black holes and worm holes, etc. We detail in this paper different types of holes, discuss their characteristics and study their effects on successful working of a sensor network. We present state-of-the-art in ...

4 Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect Transmissions (HIT) for data gathering in wireless micro sensor networks



Benjamin J. Culpepper, Lan Dung, Melody Moh

January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Issue 1**Publisher:** ACM PressFull text available:  pdf(440.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Sensor networks have many potential applications in biology, physics, medicine, and the military. One major challenge in sensor networks is to maximize network life under the constraint of limited power supply. The paper addresses energy-efficiency in the context of routing and data gathering. A new protocol is proposed: Hybrid Indirect Transmission (HIT). HIT is based on a hybrid architecture that consists of one or more clusters, each of which is based on multiple, multi-hop indirect transmiss ...

5 Sensor networks (work in progress): Mobile traffic sensor network versus motion-MIX: tracing and protecting mobile wireless nodes



Jiejun Kong, Dapeng Wu, Xiaoyan Hong, Mario Gerla

November 2005 **Proceedings of the 3rd ACM workshop on Security of ad hoc and sensor networks SASN '05****Publisher:** ACM PressFull text available:  pdf(374.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we focus on passive attacks that threaten the privacy of mobile wireless networks. We define the concept of "venue privacy attack" (VPA) to illustrate the emerging anonymity attacks to trace mobile wireless nodes. Then we propose "motion-MIX" as the countermeasure to defend against various venue privacy attacks. We study the necessary conditions to implement motion-MIXes. These conditions include identity-free routing, one-time packet content and various other concerns in the netwo ...

Keywords: ANODR, anonymity, identity-free routing, mobility, motion-MIX

6 Link and physical layer issues: On the performance of ad hoc networks with beamforming antennas



Ram Ramanathan

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing****Publisher:** ACM PressFull text available:  pdf(300.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citing terms](#), [index terms](#)

Beamforming antennas have the potential to provide a fundamental breakthrough in ad hoc network capacity. We present a broad-based examination of this potential, focusing on exploiting the longer ranges as well as the reduced interference that beamforming antennas can provide. We consider a number of enhancements to a convectional ad hoc network system, and evaluation the impact of each enhancement using simulation. Such

enhancements include "aggressive" and "conservative" channel access models ...

7 Posters and demos: A reliable sensor data collection network using unmanned aircraft



Daniel Henkel, Cory Dixon, Jack Elston, Timothy X. Brown

May 2006 **Proceedings of the second international workshop on Multi-hop ad hoc networks: from theory to reality REALMAN '06**

Publisher: ACM Press

Full text available: pdf(210.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a method for reliably collecting data events from sensors and forwarding the data via a MANET to sensor monitoring stations located on an external network. At the core is a MANET concept that consists of ground and unmanned aircraft nodes. Unmanned aircraft enable a model whereby widely-spaced sensors are intermittently connected to the network and data is sent in stages as connections become available along each stage. The paper describes the sensor data collection model, the r ...

Keywords: ad hoc networks, sensor data collection, unmanned aircraft

8 Sense 'n respond technologies: Transversal issues in real-time sense-and-respond systems

Ahmad T. Al-Hammouri, Huthaifa A. Al-Omari, Vincenzo Liberatore, Stephen M. Phillips

June 2005 **Proceedings of the 2005 workshop on End-to-end, sense-and-respond systems, applications and services EESR '05**

Publisher: USENIX Association

Full text available: pdf(135.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Networked S&R systems extend human capabilities beyond temporal and spatial barriers with useful applications in broad areas. Involving the physical-world environments, S&R systems must fulfill the intrinsic real-time requirements of these physical environments. However, communication networks lack of QoS can hamper performance and effectiveness of S&R. Therefore, end system strategies must be deployed to retain effectiveness and to enhance performance of S&R. In this paper, we survey transversa ...

9 Network simulation enhancing network management in real-time



Gary Warren, Ronald Nolte, Ken Funk, Brian Merrell

April 2004 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 14 Issue 2

Publisher: ACM Press

Full text available: pdf(365.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


This research investigates the application of network simulation to enhance network management in real-time. Its focus is on ad hoc wireless networks as needed for future public safety emergency response, homeland security, and future combat system networks where the network requirements and topology are rapidly changing. The network simulation is used to analyze user satisfaction with the network and to enable real-time what-if studies that show what the user satisfaction will be if the network ...

Keywords: Communications network simulation, quality of service, user satisfaction metrics

10 Smart packets: applying active networks to network management

Beverly Schwartz, Alden W. Jackson, W. Timothy Strayer, Wenyi Zhou, R. Dennis Rockwell, Craig Partridge

February 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1

 **Publisher:** ACM Press


Full text available:  pdf(190.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

This article introduces Smart Packets and describes the smart Packets architecture, the packet formats, the language and its design goals, and security considerations. Smart Packets is an Active Networks project focusing on applying active networks technology to network management and monitoring. Messages in active networks are programs that are executed at nodes on the path to one or more target hosts. Smart Packets programs are written in a tightly encoded, safe language specifically des ...

Keywords: active networks

11 PLAN: a packet language for active networks



 Michael Hicks, Pankaj Kakkar, Jonathan T. Moore, Carl A. Gunter, Scott Nettles
September 1998 **ACM SIGPLAN Notices , Proceedings of the third ACM SIGPLAN international conference on Functional programming ICFP '98**, Volume 34 Issue 1


Publisher: ACM Press

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

PLAN (Packet Language for Active Networks) is a new language for programs that form the packets of a programmable network. These programs replace the packet headers (which can be viewed as very rudimentary programs) used in current networks. As such, PLAN programs are lightweight and of restricted functionality. These limitations are mitigated by allowing PLAN code to call node-resident *service routines* written in other, more powerful languages. This two-level architecture, in which PLAN ...

12 Systems 1: Sensor network-based countersniper system



 Gyula Simon, Miklós Maróti, Ákos Lédeczi, György Balogh, Branislav Kusy, András Nádas, Gábor Pap, János Sallai, Ken Frampton
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**

Publisher: ACM Press

Full text available:  pdf(728.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

An ad-hoc wireless sensor network-based system is presented that detects and accurately locates shooters even in urban environments. The system consists of a large number of cheap sensors communicating through an ad-hoc wireless network, thus it is capable of tolerating multiple sensor failures, provides good coverage and high accuracy, and is capable of overcoming multipath effects. The performance of the proposed system is superior to that of centralized countersniper systems in such challe ...

Keywords: acoustic source localization, data fusion, message routing, middleware services, sensor networks, time synchronization

13 Applications: CenWits: a sensor-based loosely coupled search and rescue system using witnesses



 Jyh-How Huang, Saqib Amjad, Shivakant Mishra
November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

Full text available:  [pdf\(334.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the design, implementation and evaluation of a search and rescue system called CenWits. CenWits uses several small, commonly-available RF-based sensors, and a small number of storage and processing devices. It is designed for search and rescue of people in emergency situations in wilderness areas. A key feature of CenWits is that it does not require a continuously connected sensor network for its operation. It is designed for an intermittently connected network that provides ...

Keywords: search and rescue, sensor networks


14 Technical reports



SIGACT News Staff

April 1981 **ACM SIGACT News**, Volume 13 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(2.64 MB\)](#) Additional Information: [full citation](#)


15 Session 10: active measurement: Active probing using packet quartets



Attila Pásztor, Darryl Veitch

November 2002 **Proceedings of the 2nd ACM SIGCOMM Workshop on Internet measurement**

Publisher: ACM Press

Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A significant proportion of link bandwidth measurement methods are based on IP's ability to control the number of hops a packet can traverse along a route via the time-to-live (TTL) field of the IP header. A new delay variation based path model is introduced and used to analyse the fundamental networking effects underlying these methods. Insight from the model allows new link estimation methods to be derived and analysed. A new method family based on packet quartets: a combination of two packet ...

Keywords: TTL, active probing, bottleneck bandwidth, cross-traffic, delay variation, internet measurement


16 Active measurements: Towards improving packet probing techniques



Matthew J. Luckie, Anthony J. McGregor, Hans-Werner Braun

November 2001 **Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement**

Publisher: ACM Press

Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Packet probing is an important Internet measurement technique, supporting the investigation of packet delay, path, and loss. Current packet probing techniques use Internet Protocols such as the Internet Control Message Protocol (ICMP), the User Datagram Protocol (UDP), and the Transmission Control Protocol (TCP). These protocols were not originally designed for measurement purposes. Current packet probing techniques have several limitations that can be avoided. The IP Measurement Protocol (IPMP) ...

Keywords: network path, packet delay, packet probing techniques

17 Session F4: VR collaboration and applications: Advanced virtual reality technologies for surveillance and security applications



Renaud Ott, Mario Gutiérrez, Daniel Thalmann, Frédéric Vexo

June 2006 **Proceedings of the 2006 ACM international conference on Virtual reality continuum and its applications VRCIA '06**

Publisher: ACM Press

Full text available:  pdf(417.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a system that exploits advanced Virtual Reality technologies to create a surveillance and security system. Surveillance cameras are carried by a mini Blimp which is tele-operated using an innovative Virtual Reality interface with haptic feedback. An interactive control room (CAVE) receives multiple video streams from airborne and fixed cameras. Eye tracking technology allows for turning the user's gaze into the main interaction mechanism; the user in charge can examine, zoom and selec ...

18 Embedded system education: a new paradigm for engineering schools?



Alberto Luigi Sangiovanni-Vincentelli, Alessandro Pinto

October 2005 **ACM SIGBED Review**, Volume 2 Issue 4

Publisher: ACM Press

Full text available:  pdf(342.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Embedded systems are emerging as an essential component of modern electronic products. Embedded system design problems are posing challenges that involve entirely new skills for engineers. These skills are related to the combination of traditionally disjoint engineering disciplines. There is a shared concern that today's educational systems are not providing the appropriate foundations for embedded systems. We believe a new education paradigm is needed. We will argue this point using the example ...

Keywords: education, embedded system design


19 Oral presentation session V: query processing and data collection: On the scalability of hierarchical cooperation for dense sensor networks



Tamer ElBatt

April 2004 **Proceedings of the third international symposium on Information processing in sensor networks IPSN '04**

Publisher: ACM Press

Full text available:  pdf(185.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we study the problem of information dissemination in dense multi-hop sensor networks characterized by highly correlated sample measurements. In particular, we investigate the benefits, and trade-offs, of exploiting correlations via cooperatively compressing the data as it hops around the network. First, we study two extreme cooperation strategies, namely no cooperation and network-wide cooperation. We show that network-wide cooperation achieves logarithmic growth rate for the trans ...

Keywords: data compression, scaling laws, scheduling latency, sensor networks, spatial correlations, transport traffic

20 Networks: An empirical study of active networks




X. Luo, K. Balakrishnan, M. W. McKinnon

April 2000 **Proceedings of the 38th annual on Southeast regional conference ACM-SE 38**

Publisher: ACM Press

Full text available:

Additional Information:

 pdf(929.64 KB)[full citation](#), [abstract](#), [references](#)

The bandwidth capabilities of computer networks has increased extensively over the past decade, driven mainly by the need expressed by end-user applications. The network uses call admission algorithms to allocate its resources before it allows a call to start transmitting packets through the network. As part of this admission process, the network should be able to provide a certain QoS (Quality of Service) guarantee for the call. The traffic generated by the different calls using the same links ...

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I Yavrucuk, S Kannan, JVR Prasad - Proceedings of the AIAA Modelling and Simulation ..., 2000 - controls.ae.gatech.edu

... in the Software Enabled Control program for **UAV's** is ... Data is published over the **network**

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Application of sensor **network** communications

J Nemeroff, L Garcia, D Hampel, S DiPierro - ... Conference, 2001. MILCOM 2001.

Communications for **Network**- ..., 2001 - ieeexplore.ieee.org

... of 6- 8 hours, mission radius (**command** and control ... the airborne sensors as part of the **network** instead of ... **UAV** flight plans must be managed and controlled so as ...

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V Liberatore, WS Newman, K Bhasin - 2 nd AIAA "Unmanned Unlimited" Systems, Technologies, and ..., 2003 - pdf.aiaa.org

... implemented to form in-sky relay **networks** to pass ... Control Coordination At present, fully autonomous **UAV's** are ... subtasks through a **sequence** of **commands** of lower ...

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Bringing **command** and control of unmanned air vehicles down to earth

B Bell, J Clark - Digital Avionics Systems Conference, 2002. Proceedings. The ..., 2002 - ieeexplore.ieee.org

... in the context of a highly **network**-centric theater ... to be merged into a single cohesive **command** or query. ... of control and mission complexity among **UAV** crews must ...

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M Pachter, MJ Mears - pdf.aiaa.org

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... 7.9 seconds after the first **command** was issued ... and Coordination for Multiple **UAV's**, Proceedings ... Flight Control via Adaptive Neural **Network** Augmentation, AIAA ...

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... from the field to an operator in a **command** center off ... was achieved through the
integration of **UAV** autonomous flight control, **network** communication, and ...
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to the **network**. ... provides sufficient redundancy for the **command** and control of ...
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Decentralized sensing and tracking for UAV scheduling - group of 5 »

V Crespi, WW Chung, AB Jordan - Proceedings of SPIE, 2004 - pqsnet.net
... energy and fuel consumption of a single **UAV** is proportional to ... of the scouts were
replaced by **commands** to the ... were able to communicate over the **network**, it was ...
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TL Johnson, HA Bush, SFWY Eaker, CGEC R&D, NY ... - Aerospace Conference, 2001, IEEE Proceedings., 2001 - ieeexplore.ieee.org
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 M Idan, AJ Calise, AT Kutay, DE Parekh - Proc. of ASME FEDSM'01, 2001 - ae.gatech.edu
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 ... execute an instance of the **active** sensing node ... to increase detection confidence results in **UAV** trajectories that ... filters are pushed onto the **network** of DDF ...
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 ... polarization, while the SAR T/R frame is a single-channel **network**. ... TABLE 1 Characteristics of "Operational" **UAV Active Array Antenna / Characteristic I SAR** ...
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 ... will be measured and used for **active** control of ... 8 Table 2. Basic Characteristics

of the Dragon Eye **UAV 3** ... method simulation and a neural **network**-based analysis ...
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... build on the results of cellular neural **network** (CNN,[... ni N N/2 ... (SI V. **UAV RELATED EXPERIMENTS** ... shows two typical arrangements with multiple **active foveae**. ... [Related Articles - Web Search](#)

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... of up to 10,000 agents, where each agent represents a micro-UAV or a ... Last, but not least, Mavromoustakis and Karatza propose an **active network** conceptual model ...
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I Introduction - wireless networks - pdf.aiaa.org

... tests the ability of the **network** to find ... The **UAV** provides enough additional connectivity to prevent this stall state and thus keeps the connections **active**. ...

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